

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1 1 (Currently Amended). A speech recognition system, comprising:

2 at least one recognizer to produce output signals from audio input signals based

3 at least in part on speech models and a grammar file, the grammar file including at least
4 one command syntax;

5 a feedback module to generate feedback data, the feedback module modifying
6 the speech models and the grammar file based on the feedback data to improve the
7 performance of the at least one recognizer; and

8 a controller adaptable to ~~modify the speech models and the grammar files based~~
9 ~~on the feedback data to improve the performance of the at least one recognizer to~~
10 select one recognizer based at least in part on the feedback data from the at least one
11 recognizer for an input utterance, the selected recognizer performing most accurately
12 for the input utterance among the at least one recognizer.

1
1 2 (Previously Presented). The speech recognition system of claim 1, wherein the
2 controller is operable to coordinate production of the output signals.

1 3 (Currently Amended). The speech recognition system of claim 1, wherein the
2 controller is adaptable to provide the feedback data to the at least one recognizer
3 wherein the at least one recognizer is operable to receive the feedback data.

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1 4 (Cancelled).

1 5 (Previously Presented). The speech recognition system of claim 1, wherein the
2 controller is adaptable to store the feedback data in a storage.

1
1 6 (Cancelled).

1 7 (Currently Amended). The speech recognition system of claim 1, wherein at
2 ~~least one recognizer further comprises multiple recognizers and a predictor to select a~~
3 ~~best performing recognizer from the multiple recognizers~~ the feedback module modifies
4 the grammar file by updating the grammar files to include a weighting for possibilities
5 based upon the feedback data.

1
1 8. (Cancelled).

1 9 (Currently Amended). The system of claim 1, where the feedback module is
2 adapted to generate the feedback data based on internal analysis of at least one of ~~the~~
3 ~~group comprised of: grammar files~~ the grammar file, dialog progression, ~~[[and]]~~ or the
4 output signals.

10 (Currently Amended). The system of claim 1, wherein the feedback module is adapted to generate the feedback data based on external inputs comprising at least one of the group comprised of: an annotated grammar file or annotated grammar files and information received through an application programming interface.

11-15. (Cancelled)

16 (Currently Amended). A method ~~[[of]]~~ for automatically tuning a speech recognizer using generating speech recognition feedback data, the method comprising:
converting an audio input signal to an output signal by the speech recognizer,
the speech recognizer having speech models and a grammar file, the grammar file
including at least one command syntax;
estimating a correctness measure based at least in part on the grammar file,
wherein the correctness measure expresses if the output signal is a correct
representation of the audio input signal; ~~[[and]]~~
~~forming a generating feedback data, the feedback data including element~~
~~wherein the element comprises~~ at least one of the audio input signal, the output signal,
and the correctness ~~measure.~~ measure; and
using the feedback data to tune the speech recognizer by modifying the speech
models and the grammar file.

17 (Currently Amended). The method of claim 16, ~~wherein the method further~~
~~comprises~~ comprising storing the feedback data ~~element.~~

1 18 (Currently Amended). The method of claim 17, wherein storing the feedback
2 data element further comprises storing one of the group comprised of: only these
3 feedback data elements for which the correction measure indicates that the output
4 signal was not correct and these feedback data elements for which the correction
5 measure indicates that the output signal was correct.

1 19 (Currently Amended). The method of claim 16, wherein the feedback data is
2 filtered according to a ~~criteria~~ criterion.

1 20 (Cancelled).

1 21 (Currently Amended). The method of claim 16, ~~wherein the method further~~
2 ~~comprises~~ comprising providing the feedback data element to a to the speech
3 recognition system in which the feedback data is being collected.

1 22 (Currently Amended). The method of claim 16 wherein estimating a
2 correctness measure further comprises at least one ~~from a group comprised of~~ of
3 receiving information through an application programming interface, analyzing grammar
4 files, analyzing the output signal, or analyzing dialog and ~~analysis of the progression of~~
5 ~~the dialog~~.

1 23 (Currently Amended). The method of claim 16, ~~wherein the method further~~
2 comprising ~~comprises~~:

3 assigning an identifier to the audio input signal; and
4 including the identifier as part of the feedback data element.

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1 24 (Currently Amended). The method of claim 16, ~~wherein the method~~ further
2 comprising comprises:

3 identifying relevant contextual information; and
4 including the relevant contextual information as part of the feedback data
5 element.

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1 25 (Currently Amended). ~~An article including machine-readable code that, when~~
2 ~~executed, causes a machine to~~ An article comprising a machine-readable medium that
3 contains instructions, which when executed by a processing platform, cause said
4 processing platform to perform operations comprising:

5 ~~convert~~ converting an audio input signal to an output signal by a speech
6 recognition system, the speech recognizer having speech models and a grammar file,
7 the grammar file including at least one command syntax;

8 ~~estimate~~ estimating a correctness measure based at least in part on the
9 grammar file, wherein the correctness measure expresses if the output signal is a
10 correct representation of the audio input signal; ~~[[and]]~~

11 ~~forming a~~ generating feedback data, the feedback data including element
12 ~~wherein the element comprises~~ at least one of the audio input signal, the output signal,
13 and the correctness ~~measure.~~ measure; and

14 using the feedback data to tune the speech recognizer by modifying the speech
15 models and the grammar file.

1
1 26 (Currently Amended). The article of claim 25, wherein ~~the article contains~~
2 ~~further machine-readable code that, when executed, causes the machine to provide the~~
3 operations further comprise providing the feedback data element to a to the speech
4 ~~recognition system~~ recognizer in which the feedback data is being collected.

1
1 27 (Currently Amended). The article of claim 25, wherein ~~the code that, when~~
2 ~~executed, causes the machine to provide the operations further comprise utilizing the~~
3 ~~feedback data element and further causes the machine to utilize the feedback data~~
4 ~~element, wherein utilizing the feedback data comprises~~ includes at least one of the
5 ~~group comprising: modifying a grammar~~ the grammar file based on the feedback data,
6 updating speech models based on the feedback data, or data and updating a prediction
7 mechanisms based on the feedback data.

1
1 28 (Currently Amended). The article of claim 25, wherein ~~the article contains~~
2 ~~further machine-readable code that, when executed, causes the machine to store the~~
3 operations further comprise storing only those audio input signals for which the
4 correction status indicates that a correction to the output signal was necessary.

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1 29 (Cancelled).